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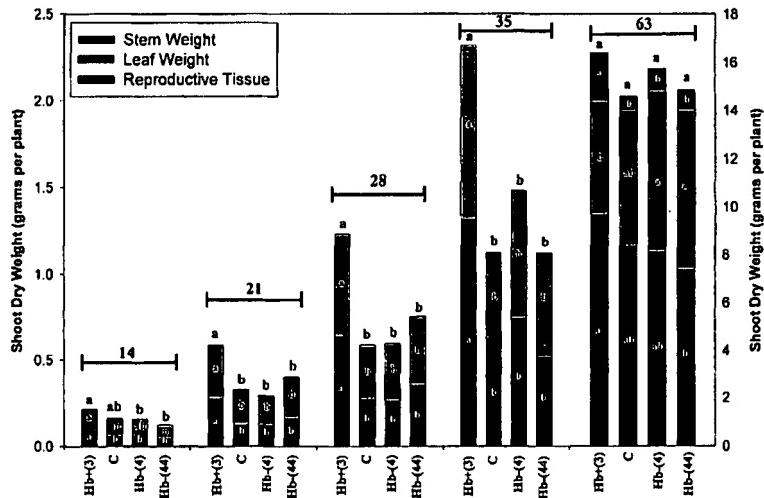
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(54) Title: METHOD OF MODIFYING PLANT PHENOTYPES WITH NONSYMBIOTIC HEMOGLOBIN



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(57) Abstract: The present invention provides a method of modifying a plant phenotype by transforming a plant to alter the level of expression of non-symbiotic plant hemoglobin in the plant, whereby the transformed plant exhibits, under normal oxygen conditions, a plant phenotype that is modified as compared to a non-transformed plant. Plants exhibiting modified phenotypes under normal oxygen conditions also are provided. Methods of modifying the response to a plant hormone in a plant also are provided.